



5080

DT06 Rec'd PCT/PTO 03/21/2002

PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

PCT
SDP

ATTENT! Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application Number	10/088,945
		Filing Date	03/21/2002
		First Named Inventor	ANDREWS
		Group Art Unit	TBA
		Examiner Name	TBA
Total Number of Pages in This Submission	5	Attorney Docket Number	50449/UST

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
Remarks		

24 Reference documents

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Randee S. Schwartz, Attorney for Applicants, Registration No. 45,085
Signature	
Date	10/3/02

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date:

10/3/02

Typed or printed name	Susan D. Holder
Signature	
Date	10/3/02

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

ANDREWS, et al.

Serial. No. 10/088,945

Filed: March 21, 2002

For: GST SEQUENCES FROM SOYBEAN
AND THEIR USE IN THE
PRODUCTION OF HERBICIDE
RESISTANT PLANTS

Art Unit: TBA

Examiner: TBA

Atty Docket: 50449/UST

Confirmation No.: 4663

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

This Information Disclosure Statement is filed in accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98. The items listed on the enclosed Form PTO-1449 may be deemed to be pertinent to the above-identified application and are made of record to assist the Patent and Trademark Office in its examination of this application. The Examiner is respectfully requested to fully consider the items in relation to this application and to indicate that each reference was considered by returning a copy of the initialed PTO 1449 forms.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicants reserve the right to dispute any of the listed documents as prior art during examination. Further, Applicants do not waive any right to take any action that would be appropriate to antedate or

Applicants do not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application. Further, the submission of the Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other material information may exist.

In accordance with 37 CFR §1.97(b)(3), no fee is believed to be required for consideration of this Statement since it is being submitted before the mailing date of a first Office Action on the merits. If a fee is deemed to be required, the Commissioner is hereby authorized to charge such fee to Deposit Account No. 50-1744.

Respectfully submitted,



Randee S. Schwartz
Attorney for Applicants
Registration No. 45,085

Syngenta Biotechnology, Inc.
P. O. Box 12257
Research Triangle Park, NC 27709-2257
Telephone: 919-765-5098
Date: 10/31/02



E (Use several sheets if necessary)

ATTY. DOCKET
50449/UST
APPLICATION NO.
10/088,945
APPLICANT
ANDREWS et al
FILING DATE:
March 21, 2002Confirmation No.
4663
Group
TBA

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A	US 6,063,570	5/16/00	McGonigle	435	6	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION YES <input type="checkbox"/> NO <input type="checkbox"/>
	B	WO 00 47728	8/17/00	WIPO	9	10	<input type="checkbox"/> <input type="checkbox"/>
	C	WO 00 18936	4/6/00	WIPO	15	82	<input type="checkbox"/> <input type="checkbox"/>
	D	WO 99 14337	3/25/99	WIPO	15	54	<input type="checkbox"/> <input type="checkbox"/>

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

E	Andrews et al., <i>Glutathione Transferase Activities toward Herbicides Used Selectively in Soybean Pesticide Science</i> , Vol. 51 (1997), pp. 213-222
F	Andrews et al., <i>Glutathione transferases in soybean</i> <i>Journal of Experimental Botany</i> , Vol. 49, Supplemental (May 1998), pp. 22-23
G	Blewitt, M., <i>BNLGH10422 Six-day Cotton fiber Gossypium hirsutum cDNA 5' similar to (AF064201) glutathione S-transferase [Gossypium hirsutum], mRNA sequence</i> Accession No.: AI731664 [database, EMBL online], Retrieved from the internet 6/27/02: <URL: http://www.ebi.ac.uk/cgi-bin/embifetch
H	Federspiel et al., <i>Arabidopsis thaliana chromosome 1 BAC F23H11 genomic sequence, complete sequence</i> Accession No.: AC007258 [database, EMBL online], Retrieved from the internet 6/27/02: <URL: http://www.ebi.ac.uk/cgi-bin/embifetch
I	Frendo et al., <i>Localisation of glutathione and homoglutathione in Medicago truncatula is correlated to a differential expression of genes involved in their synthesis</i> <i>The Plant Journal</i> , Vol. 17(2) (1999), pp. 215-219
J	Frendo et al., <i>Medicago truncatula putative glutathione synthetase (GSHS1) mRNA, partial cds.</i> Accession No.: AF075699 [database, EMBL online], Retrieved from the internet 6/27/02: <URL: http://www.ebi.ac.uk/cgi-bin/embifetch
K	Frendo et al., <i>Medicago truncatula putative glutathione synthetase (GSHS2) mRNA, partial cds.</i> Accession No.: AF075700 [database, Genbank online], Retrieved from the internet 6/27/02: <URL: http://www.ncbi.nlm.nih.gov/entrez/
L	Klapheck et al., <i>Properties and localization of the homoglutathione synthetase from phaseolus-coccineus leaves</i> <i>Physiologia Plantarum</i> , Vol. 74, No. 4 (1988), pp. 733-739

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial of ref no considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 2 of 2

ATTY. DOCKET
50449/UST
APPLICATION NO.
10/088,945
APPLICANT
ANDREWS et al
FILING DATE:
March 21, 2002Confirmation No.
4663
Group
TBA

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

M	Kovari, I.A., and Goldsbrough, P.B., <i>Lycopersicon esculentum glutathione synthetase (GSH2) mRNA, complete cds.</i> Accession No.: AF017984 [database, EMBL online], Retrieved from the internet 6/27/02: <URL: http://www.ebi.ac.uk/cgi-bin/embifetch
N	Matamoros et al., <i>Glutathione and Homoglutathione Synthesis in Legume Root Nodules</i> <i>Plant Physiology</i> , Vol. 121 (November 1999), pp. 879-888
O	McGonigle et al., <i>A Genomics Approach to the Comprehensive Analysis of the Glutathione S-Transferase Gene Family in Soybean and Maize</i> <i>Plant Physiology</i> , Vol. 124 (November 2000), pp. 1105-1120
P	McGonigle et al., <i>Homoglutathione Selectivity by Soybean Glutathione S-Transferases</i> <i>Pesticide Biochemistry and Physiology</i> , Vol. 62 (1998), pp. 15-25
Q	McKersie et al., <i>Superoxide dismutase enhances tolerance of freezing stress in transgenic alfalfa (Medicago sativa L.)</i> <i>Plant Physiology</i> , Vol. 103, No. 4 (December 1993) pp. 1155-1163
R	Riechers et al., <i>Aegilops tauschii glutathione S-transferase TSI-1 mRNA, complete cds.</i> Accession No.: AF004358 [database, EMBL online], Retrieved from the internet 6/27/02: <URL: http://www.ebi.ac.uk/cgi-bin/embifetch
S	Schaefer et al., <i>B. juncea mRNA for glutathione synthetase</i> Accession No.: Y10984.1 [database, EMBL online], Retrieved from the internet 6/27/02: <URL: http://www.ebi.ac.uk/cgi-bin/embifetch
T	Shoemaker et al., <i>sa63f01.y1 Gm-c1004 Glycine max cDNA clone GENOME SYSTEMS CLONE ID: Gm-C1004-3986 5' similar to TR:004562 004562 T7N9.15 ;, mRNA sequence</i> Accession No.: AI440996 [database, EMBL online], Retrieved from the internet 6/27/02: <URL: http://www.ebi.ac.uk/cgi-bin/embifetch
U	Shoemaker et al., <i>sil4c11.y1 Gm-c1029 Glycine max cDNA clone GENOME SYSTEMS CLONE ID: Gm-c1029-1197 5' similar to TR: 004941 004941 Glutathione S-Transferase TSI-1 ;, mRNA sequence</i> Accession No.: AW471665 [database, Genbank online], Retrieved from the internet 6/27/02: <URL: http://www.ncbi.nlm.nih.gov/entrez/
V	Skipsey et al., "Purification and characterization of glutathione transferase enzymes from soybean seedlings," in <i>British Crop Protection Conference—Weeds</i> (British Crop Protection Council, 1997), pp. 789-794
W	Skipsey et al., <i>Substrate and thiol specificity of a stress-inducible glutathione transferase from soybean</i> <i>Federation of European Biochemical Societies Letters</i> , Vol. 409 (1997) pp. 370-374
X	Skipsey, M., <i>Glycine max mRNA for homoglutathione synthetase (hGS gene)</i> Accession No.: AJ272035 [database, EMBL online], Retrieved from the internet 6/27/02: <URL: http://www.ebi.ac.uk/cgi-bin/embifetch

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.